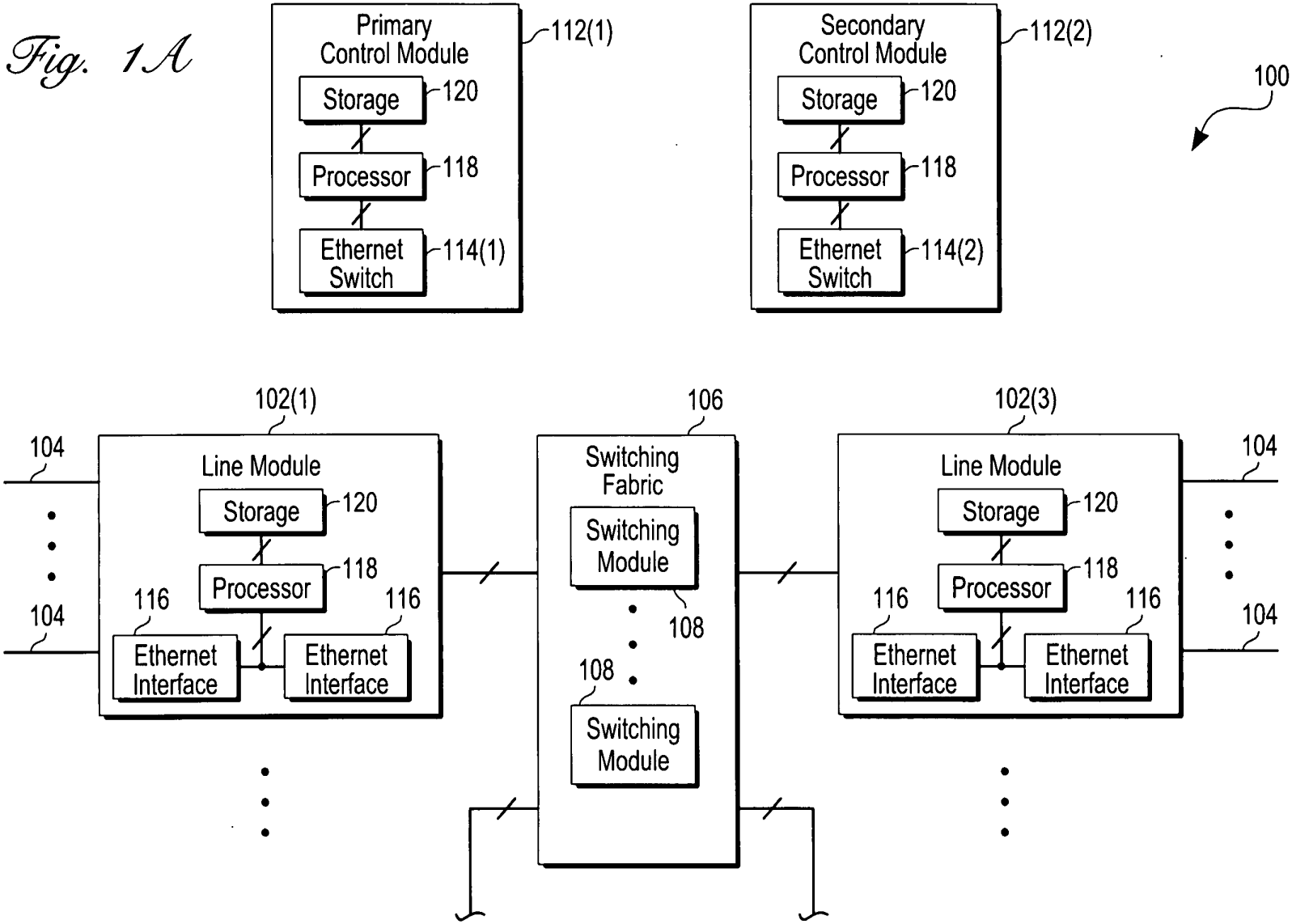
T06201'98T6001

Fig. 1A



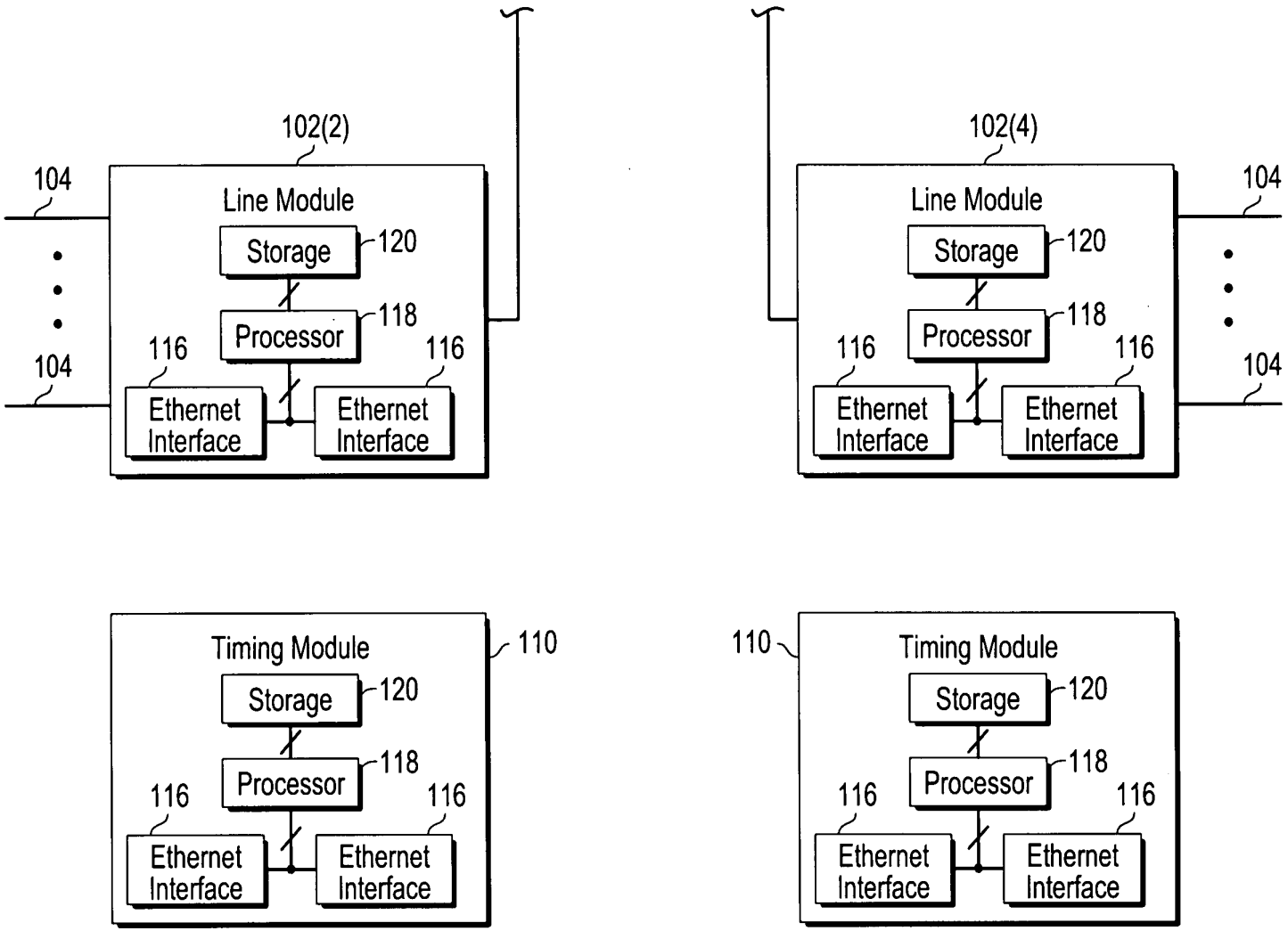

102(2)
104
Line Module
Storage
120
Processor
118
116
116
104
Ethernet Interface
Ethernet Interface
102(4)
104
Line Module
Storage
120
Processor
118
116
116
104
Ethernet Interface
Ethernet Interface
110
Timing Module
Storage
120
Processor
118
116
116
Ethernet Interface
Ethernet Interface
110
Timing Module
Storage
120
Processor
118
116
116
Ethernet Interface
Ethernet Interface

Fig. 1B

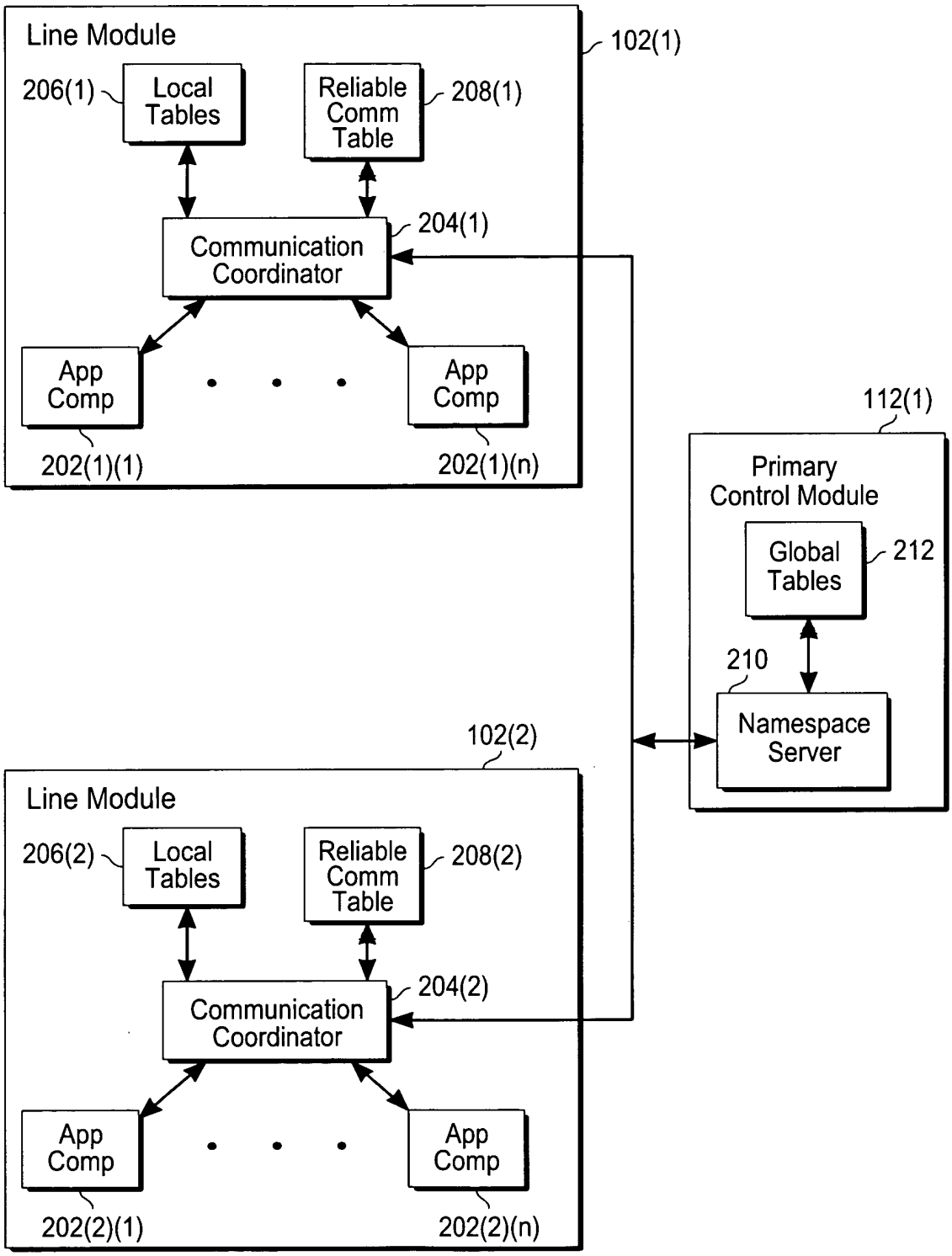

Line Module
102(1)
206(1)
Local Tables
Reliable Comm Table
208(1)
204(1)
Communication Coordinator
App Comp
App Comp
202(1)(1)
202(1)(n)
112(1)
Primary Control Module
Global Tables
212
210
Namespace Server
102(2)
Line Module
206(2)
Local Tables
Reliable Comm Table
208(2)
204(2)
Communication Coordinator
App Comp
App Comp
202(2)(1)
202(2)(n)

Fig. 2

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Local Publishers Table

302

Namespace	Reference to Publisher	IP address/ Port #
/LM/1/Monitor/Event/LOS	P1	X1, Y1

310

Fig. 3A

Local Subscribers Table

304

Namespace	Reference to Subscriber	IP address/ Port #	Reliability	Priority
/LM/2/Foo/Event/Sleep	S1	X1, Y1	Reliable	Normal
/LM/1/Monitor/Event/LOS	S2	X2, Y2	Best Effort	Normal

312

314

Fig. 3B

Local Servers Table

306

	Namespace	Reference to Server	IP address/ Port #	Reliability	Priority
320	/LM/1/Monitor/Op/Get	P1	X1, Y1	Best Effort	Normal
322	/LM/2/Foo/Op/Set	P2	X2, Y2	Best Effort	Normal

Fig. 3C

Local Clients Table

308

	Namespace	Reference to Client	IP address/ Port #
324	/LM/2/Foo/Op/Set	S1	X1, Y1

Fig. 3D

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Local Publishers Table

402

Namespace	Reference to Publisher	IP address/ Port #
/LM/2/Foo/Event/Sleep	P2	X2, Y2

410

Fig. 4A

Local Subscribers Table

404

Namespace	Reference to Subscriber	IP address/ Port #	Reliability	Priority
/*/Event/LOS	S2	X2, Y2	Best Effort	Normal
/LM/2/Foo/Event/Sleep	S1	X1, Y1	Reliable	Normal

412

414

Fig. 4B

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Local Servers Table

406

	Namespace	Reference to Server	IP address/ Port #	Reliability	Priority
420	/LM/2/Foo/Op/Set	P2	X2, Y2	Best Effort	Normal
422	/LM/1/Monitor/Op/Get	P1	X1, Y1	Best Effort	Normal

Fig. 4C

Local Clients Table

408

	Namespace	Reference to Client	IP address/ Port #
424	/LM/1/Monitor/Op/Get	S2	X2, Y2

Fig. 4D

Global Publishers Table

502

	Namespace	Reference to Publisher	IP address/ Port #
510	/LM/1/Monitor/Event/LOS	P1	X1, Y1
512	/LM/2/Foo/Event/Sleep	P2	X2, Y2
514	/LM/3/Bar/Event/Wake	P3	X3, Y3
	⋮	⋮	⋮

Fig. 5A

Global Subscribers Table

504

	Namespace	Reference to Subscriber	IP address/ Port #	Reliability	Priority
516	/LM/2/Foo/Event/Sleep	S1	X1, Y1	Reliable	Normal
518	/*/Event/LOS	S2	X2, Y2	Best Effort	Normal
520	/LM/4/Test/Event/True	S3	X4, Y4	Best Effort	Normal
	⋮	⋮	⋮	⋮	⋮

Fig. 5B

Global Servers Table

506

	Namespace	Reference to Server	IP address/ Port #	Reliability	Priority
520	/LM/1/Monitor/Op/Get	P1	X1, Y1	Best Effort	Normal
522	/LM/2/Foo/Op/Set	P2	X2, Y2	Best Effort	Normal
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•

Fig. 5C

Global Clients Table

508

	Namespace	Reference to Client	IP address/ Port #
524	/LM/2/Foo/Op/Set	S1	X1, Y1
526	/LM/1/Monitor/Op/Get	S2	X2, Y2
	•	•	•
	•	•	•
	•	•	•

Fig. 5D

Reliable Communication Table

208(1)

IP address/ Port #	Sending Sequence #	Receiving Sequence #	Missing Sequence Number List
X2, Y2	2040	50	
•	•	•	•
•	•	•	•
•	•	•	•

610

Fig. 6

Reliable Communication Table

208(2)

IP address/ Port #	Sending Sequence #	Receiving Sequence #	Missing Sequence Number List
X1, Y1	50	2040	
•	•	•	•
•	•	•	•
•	•	•	•

710

Fig. 7